REMARKS

This application has been carefully reviewed in light of the Office Action dated July 7, 2004. Claims 1 to 20, 22 and 23 are in the application, of which Claims 1, 10, 13, 20, 22 and 23 are independent.

Applicant thanks the Examiner for the indication of allowable subject matter in Claims 1 to 19 and 21. The subject matter of Claim 21 has been incorporated into Claim 20, and Claim 21 has been cancelled. As such, Claim 20 is also believed to be allowable.

Claim 20 was rejected under 35 U.S.C. § 102(b) over U.S. Patent 5,453,684 (Nakayama). The foregoing actions have been taken without prejudice or disclaimer of subject matter and without conceding the correctness of the rejection, and merely to obtain an earlier allowance. Reconsideration and withdrawal of the rejection are respectfully requested.

New Claims 22 and 23 have been added and are believed to define patentable subject matter.

Claim 22 recites a position detecting apparatus that detects a position of an object. The apparatus comprises a position sensor that outputs at least two-phases of position detecting signals that change periodically or sinusoidally according to movement of the object, a signal adjusting unit that performs gain and offset adjustment of each of the position detecting signals by using adjustment data, and a calculation unit that obtains a position of the object on the basis of the position detecting signals whose gains and offsets are adjusted. The signal adjusting unit adjusts gains and offsets of the position detecting

signals on the basis of the adjustment data corresponding to a wave number of the position detecting signals from a reference position. Thus, according to one feature of Claim 22, the gains and offsets of the position detecting signals are adjusted based on adjustment data corresponding to a wave number of the position detecting signals from a reference position.

Claims 23 recites a position detecting method of adjusting gains and offsets of at least two phases of position detecting signals that change periodically or sinusoidally and are outputted from a position sensor according to movement of an object, and obtaining a position of the object on the basis of the position detecting signals whose gains and offsets are adjusted. The method comprises a step of obtaining adjustment data corresponding to a wave number of the position detecting signals from a reference position, and a step of adjusting gains and offsets of the position detecting signals on the basis of the obtained adjustment data. Thus, according to one feature of Claim 23, the gains and offsets are adjusted on the basis of adjustment data that corresponds to a wave number of the position detecting signals from a reference position.

Accordingly, Claims 22 and 23 are believed to be allowable, and such action is respectfully requested.

No other matters being raised, it is believed that the entire application is fully in condition for allowance, and such action is courteously solicited.

Applicant's undersigned attorney may be reached in our Costa Mesa, California office at (714) 540-8700. All correspondence should continue to be directed to our below-listed address.

Respectfully submitted,

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